

## MEAN PLOT

### PURPOSE

Generates a subsample mean versus subsample index plot.

### DESCRIPTION

The subsample mean is the mean of the data in the subsample. The mean plot is used to answer the question: "Does the subsample location change over different subsamples?" The plot consists of:

Vertical axis = subsample mean;

Horizontal axis = subsample index.

In addition, a horizontal line is drawn representing the full sample mean. The appearance of the 2 traces is controlled by the first 2 settings of the LINES, CHARACTERS, SPIKES, BARS, and similar attributes.

### SYNTAX

MEAN PLOT <y> <x> <SUBSET/EXCEPT/FOR qualification>

where <y> is the response (= dependent) variable;

<x> is the subsample identifier variable (this variable appears on the horizontal axis);

and where the <SUBSET/EXCEPT/FOR qualification> is optional.

### EXAMPLES

MEAN PLOT Y X

MEAN PLOT Y X SUBSET X = 2 TO 20

### DEFAULT

None

### SYNONYMS

None

### RELATED COMMANDS

CHARACTERS	=	Sets the type for plot characters.
LINES	=	Sets the type for plot lines.
MEDIAN PLOT	=	Generates a median plot.
MIDMEAN PLOT	=	Generates a midmean plot.
MIDRANGE PLOT	=	Generates a midrange plot.
TRIMMED MEAN PLOT	=	Generates a trimmed mean plot.
WINDSORIZED MEAN PLOT	=	Generates a Windsorized mean plot
SD PLOT	=	Generates a standard deviation plot.
BOX PLOT	=	Generates a box plot.
XBAR CHART	=	Generates an xbar control chart.
PLOT	=	Generates a data or function plot.

### APPLICATIONS

Exploratory Data Analysis

### IMPLEMENTATION DATE

88/2

## PROGRAM

```
SKIP 25
READ GEAR.DAT Y X
LINE BLANK DASH
CHARACTER X BLANK
XTIC OFFSET 0.2 0.2
YILABEL MEAN
XILABEL SAMPLE ID
TITLE AUTOMATIC
MEAN PLOT Y X
```

